

INTERNATIONAL SEARCH REPORT

Intern: Application No
PCT/US 03/36518

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C10M105/18 C10M107/34 C10M129/16 C10M145/32 C10M145/34
C07C43/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C10M C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 197 105 A (HOLT HAROLD S) 16 April 1940 (1940-04-16) column 1, line 1 - column 2, line 25 column 4, line 37 - column 5, line 22 claims; examples IV,V,VI	1-6,17
X	US 5 110 961 A (PETIT FRANCIS ET AL) 5 May 1992 (1992-05-05) examples 3-8 column 1	1-3,5,6, 17
X	US 5 563 251 A (LACHOCKI THOMAS M) 8 October 1996 (1996-10-08) column 1, line 60 - column 4, line 5 claims; examples	1-3,5,6, 17
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

27 May 2004

Date of mailing of the international search report

04/06/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 482 759 A (LUBRIZOL CORP) 29 April 1992 (1992-04-29) page 1, line 38 - page 2, line 45 claims 1,4,7,10,13,16,20	1-3,6, 8-11,13, 16
X	EP 0 761 804 A (ASAHI DENKA KOGYO KK) 12 March 1997 (1997-03-12) page 3, line 25 - page 5, line 50 page 7, line 23 - line 51 examples 43,45,60	1,2,5-8, 13,16
A	US 4 871 476 A (TOKASHIKI MICHIIHIDE ET AL) 3 October 1989 (1989-10-03) the whole document	1-17

Continuation of Box I.2

Claims Nos.: 7, 15; 1-6,8-14,16,17, in part

Present claims relate to an extremely large number of possible compounds/products/methods.

Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds/products/methods claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Furthermore, the initial phase of the search revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claim(s) may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of the claims is impossible.

Consequently, the search has been restricted to those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds/products/methods wherein A is derived from an alcohol as defined in dependent claims 4 and 12 and B from an epoxide as defined in dependent claims 6 and 14.

Claims 7 and 15 relate to a compound/product wherein B is defined by being the residue of a "commercially available traction compound". These claims lack disclosure, support and clarity (Articles 5 and 6 PCT) to such an extent, that a meaningful search is impossible. Consequently, claims 7 and 15 have not been searched.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 7, 15; 1-6, 8-14, 16, 17, in part
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern

I Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2197105	A	16-04-1940	NONE	
US 5110961	A	05-05-1992	FR 2656301 A1 DE 4041400 A1 IT 1242794 B JP 4108740 A	28-06-1991 27-06-1991 18-05-1994 09-04-1992
US 5563251	A	08-10-1996	NONE	
EP 0482759	A	29-04-1992	US 5084197 A AT 136053 T AU 646689 B2 AU 8456791 A BR 9104109 A CA 2051495 A1 DE 69118306 D1 DE 69118306 T2 EP 0482759 A1 ES 2087974 T3 FI 914430 A JP 5194978 A MX 9101201 A1 NO 913691 A US 5198135 A	28-01-1992 15-04-1996 03-03-1994 26-03-1992 02-06-1992 22-03-1992 02-05-1996 08-08-1996 29-04-1992 01-08-1996 22-03-1992 03-08-1993 04-05-1992 23-03-1992 30-03-1993
EP 0761804	A	12-03-1997	JP 9053088 A JP 9059662 A JP 9087649 A CA 2182916 A1 EP 0761804 A1 US 5858931 A	25-02-1997 04-03-1997 31-03-1997 10-02-1997 12-03-1997 12-01-1999
US 4871476	A	03-10-1989	NONE	